

# TD-1900-A-1 SPECIFICATIONS

## MOTOR CHARACTERISTICS @ 25° C

Specification	Units	Value
Peak Torque, $T_p$	oz-in	18
Motor Constant, $K_M$	oz-in / W	3.51
Excursion Angle	degrees	$\pm 35$
Number of Poles		2
Weight	oz (nom)	10
Motor Inertia, $J_M$	oz-in-s <sup>2</sup>	3.40E-03
Friction Torque, $T_F$	oz-in	0.5
Electrical Time Constant, $T_E$	ms	0.625
Mechanical Time Constant, $T_M$	ms	39.37

## MOTOR WINDING CONSTANTS

Specification	Units	Value
Torque Sensitivity, $K_T$	oz-in/amp	6.28
Back EMF, $K_E$	V per rad/s	0.044
Terminal Resistance, $R_M$	ohms (nom)	3.2
Terminal Inductance, $L_M$	mH (nom)	2
Voltage, Stalled at Peak Torque, $V_p$	volts	10
Amps at Peak Torque, $I_p$	amps	3

## MECHANICAL DIMENSIONS (INCHES)

